

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/039626 A3

(51) International Patent Classification⁷: **A61K 38/28**,
31/198, 31/64, 38/16, 31/4439, A61P 3/10

(21) International Application Number:
PCT/CA2004/001883

(22) International Filing Date: 27 October 2004 (27.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/514,738 27 October 2003 (27.10.2003) US

(71) Applicant (for all designated States except US): **INN-
ODIA INC.** [CA/CA]; 500 Cartier Boulevard West,
Bureau 132, Laval, Quebec H7V 5B7 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BELLINI,**
Francesco [CA/CA]; 307, Portland, Ville Mont-Royal,
Quebec H3R 1V4 (CA). **VEZEAU, Claude** [CA/CA];
4, ch. De Hombourg, Lorraine, Quebec J6Z 4N2 (CA).
RIBES, Gerard [FR/FR]; Résidence "Le Françoise", 42,
route de Laverune, F-34070 Montpellier (FR). **CHAPAL,**
Nicolas [FR/CA]; 5039, St-Urbain, Montreal, Quebec H2T
2W4 (CA). **PRENTKI, Marc** [CA/CA]; 126 Wicksteed,
Ville Mont-Royal, Quebec, H3P 1R2 (CA).

(74) Agents: **ROBINSON, J., Christopher** et al.; Smart &
Biggar, Box 11560 Vancouver Centre, Suite 2200, 650
West Georgia Street, Vancouver, British Columbia V6B
4N8 (CA).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
16 June 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: USE OF HYDROXYLATED AMINO ACIDS FOR TREATING DIABETES

(57) Abstract: This invention relates to methods and compositions for treating diabetes, which involve the use of hydroxylated amino acids, such as 4-hydroxyisoleucine, and one or more additional antidiabetic agents.

WO 2005/039626 A3

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/039626 A2

(51) International Patent Classification⁷: **A61K 38/28**,
31/198, 31/64, 38/16, 31/4439, A61P 3/10

(21) International Application Number:
PCT/CA2004/001883

(22) International Filing Date: 27 October 2004 (27.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/514,738 27 October 2003 (27.10.2003) US

(71) Applicant (for all designated States except US): **INN-
ODIA INC.** [CA/CA]; 500 Cartier Boulevard West,
Bureau 132, Laval, Quebec H7V 5B7 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BELLINI**,
Francesco [CA/CA]; 307, Portland, Ville Mont-Royal,
Quebec H3R 1V4 (CA). **VEZEAU**, Claude [CA/CA];
4, ch. De Hombourg, Lorraine, Quebec J6Z 4N2 (CA).
RIBES, Gerard [FR/FR]; Résidence "Le Françoise", 42,
route de Laverune, F-34070 Montpellier (FR). **CHAPAL**,
Nicolas [FR/CA]; 5039, St-Urbain, Montreal, Quebec H2T
2W4 (CA). **PRENTKI**, Marc [CA/CA]; 126 Wicksteed,
Ville Mont-Royal, Quebec, H3P 1R2 (CA).

(74) Agents: **ROBINSON**, Christopher, J. et al.; Smart &
Biggar, Box 11560 Vancouver Centre, Suite 2200, 650
West Georgia Street, Vancouver, British Columbia V6B
4N8 (CA).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND COMPOSITION FOR USE IN TREATING DIABETES

(57) Abstract: This invention relates to methods and compositions for treating diabetes, which involve the use of hydroxylated amino acids, such as 4-hydroxyisoleucine, and one or more additional antidiabetic agents.

WO 2005/039626 A2